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Symbol Name ID	P2rx7 purinergic receptor P2X, ligand-gated ion channel, 7 MGI:1339957		Nomenclature	
Synonyms	P2X7 receptor			
Genetic Map	Chromosome 5 cytoband F Mapping data(2)			
Sequence Map	121796777-121834215 bp, + strand (From Ensembl annotation of NCBI Build 34) Ensembl ContigView UCSC Browser NCBI Map Viewer	chr5 121810k 121820k MGI Mouse GBrowse		
Mammalian homology	human; rat (Mammalian Orthology)			
Sequences	Representative Sequences	Length Strain/Specie Ensembl Gene Model MGI Sequence Detail RefSeq MGI Sequence Detail SWISS- PROT EBI MGI Sequence Detail	Length Strain/Specie	
			37439 C57BL/6J	
			4931 C57BL/6	
			595 Not Applicable	
	<i>For the selected sequences</i> download in FASTA format			
	All sequences(40)			
Phenotypes	All phenotypic alleles(5) : Targeted, knock-out(4) Spontaneous(1) Mice homozygous for disruptions in this gene are fertile and viable with no obvious phenotypic abnormality. Cellular responses of macrophage to extracellular ATP are frequently normal however. In addition, long bones are thinner than normal in adult mice.			
Polymorphisms	SNPs within 2kb(6)			
Gene Ontology (GO) classifications	Process cation transport , ion transport ... Component integral to membrane , integral to plasma membrane ... Function ATP binding , ATP-gated cation channel activity ... All GO classifications(13)			
Expression	cDNA source data(27)			
Other database links	DoTS DT.101316192 , DT.487689 , DT.91336254 , DT.94273607 , UniGene 42026			

04/05/2006
MGI 3.43

	TIGR Entrez Gene	TC1521182 , TC1556876 , TC1567606 18439
Protein domains	InterPro ID Description IPR001429 ATP P2X receptor IPR003050 P2X7 purinoceptor Graphical View of Protein Domain Structure	
Molecular reagents	All nucleic(29) cDNA(29)	
References	(Earliest) J:51040 Chessell IP et al., "Cloning and functional characterisation of the mouse P2X7 receptor." FEBS Lett 1998 Nov 13;439(1-2):26-30 (Latest) J:105908 Li J et al., "The P2X7 nucleotide receptor mediates skeletal mechanotransduction." J Biol Chem 2005 Dec 30;280(52):42952-9 All references(24)	
Other accession IDs	MGId:2140909	